

10/722,888>03/01/2007

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(FILE 'HOME' ENTERED AT 22:01:04 ON 03 JAN 2007)

FILE 'CAPLUS' ENTERED AT 22:01:35 ON 03 JAN 2007

E CASH MARY/AU 25

L1

5 S (E3 OR E4)

E COWAN PATRI*/AU 25

L2

11 S (E5 OR E6)

E KROON GIJSBERT/AU 25

L3

17 S (E3 OR E4)

L4

29 S L1 OR L2 OR L3

L5

20 S L4 AND ?CELLULOSE

10/722, 888>03/01/2007

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FILE 'HOME' ENTERED AT 22:01:04 ON 03 JAN 2007

FILE 'CAPLUS' ENTERED AT 22:01:35 ON 03 JAN 2007
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FILE LAST UPDATED: 2 Jan 2007 (20070102/ED)

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<http://www.cas.org/infopolicy.html>

=> E CASH MARY/AU 25

E1	1	CASH M M/AU
E2	2	CASH MARTIN G/AU
E3	1	--> CASH MARY/AU
E4	4	CASH MARY JEAN/AU
E5	1	CASH MARY K/AU
E6	1	CASH MELANIE N/AU
E7	1	CASH MERLE/AU
E8	1	CASH MERVINA K M/AU
E9	3	CASH MICHAEL/AU
E10	1	CASH MICHAEL J/AU
E11	3	CASH MICHAEL T/AU
E12	1	CASH MICHELE/AU
E13	1	CASH MICHELE D/AU
E14	1	CASH MURRAY M/AU
E15	13	CASH P/AU
E16	2	CASH P E/AU
E17	2	CASH P W/AU
E18	4	CASH PATRICIA/AU
E19	2	CASH PATRICIA W/AU

10/722,888>03/01/2007

E20 1 CASH PATRICIA WINTER/AU
E21 3 CASH PAUL T/AU
E22 1 CASH PENNY/AU
E23 4 CASH PENNY A/AU
E24 2 CASH PETER ANTHONY/AU
E25 6 CASH PHIL/AU

=> S (E3 OR E4)

1 "CASH MARY"/AU
4 "CASH MARY JEAN"/AU
L1 5 ("CASH MARY"/AU OR "CASH MARY JEAN"/AU).

=> E COWAN PATRI*/AU 25

E1 1 COWAN PAMELA S/AU
E2 1 COWAN PAT/AU
E3 0 ---> COWAN PATRI*/AU
E4 1 COWAN PATRICIA E/AU
E5 6 COWAN PATRICK J/AU
E6 5 COWAN PATRICK JOSEPH/AU
E7 4 COWAN PATRICK M/AU
E8 1 COWAN PATTY N/AU
E9 3 COWAN PAUL/AU
E10 1 COWAN PAUL ANTHONY/AU
E11 2 COWAN PAUL J/AU
E12 1 COWAN PAUL L/AU
E13 1 COWAN PAUL LLOYD/AU
E14 1 COWAN PAULINE/AU
E15 5 COWAN PAULINE M/AU
E16 1 COWAN PENELOPE/AU
E17 2 COWAN PETER/AU
E18 6 COWAN PETER A/AU
E19 1 COWAN PETER C/AU
E20 20 COWAN PETER J/AU
E21 1 COWAN PETER JOHN/AU
E22 1 COWAN PHIL/AU
E23 1 COWAN PHILIP B/AU
E24 1 COWAN PHILIP E/AU
E25 554 COWAN R/AU

=> S (E5 OR E6)

6 "COWAN PATRICK J"/AU
5 "COWAN PATRICK JOSEPH"/AU
L2 11 ("COWAN PATRICK J"/AU OR "COWAN PATRICK JOSEPH"/AU)

=> E KROON GIJSBERT/AU 25

E1 12 KROON GERARD J A/AU
E2 4 KROON GERY/AU
E3 16 ---> KROON GIJSBERT/AU
E4 1 KROON GIJSBORT/AU
E5 1 KROON H/AU
E6 3 KROON H J J/AU
E7 3 KROON H M/AU
E8 4 KROON HARRY E/AU
E9 1 KROON HENNIE/AU
E10 1 KROON HENNIE J J/AU
E11 1 KROON HENRICUS JOHANNES JACOBUS/AU
E12 3 KROON HERMAN M/AU
E13 7 KROON I/AU
E14 2 KROON INGRID/AU
E15 1 KROON INGVAR/AU
E16 142 KROON J/AU
E17 1 KROON J A/AU
E18 1 KROON J B H/AU
E19 4 KROON J C/AU

E20 17 KROON J J/AU
 E21 28 KROON J M/AU
 E22 1 KROON J M W/AU
 E23 5 KROON J P C/AU
 E24 1 KROON J R/AU
 E25 1 KROON J RIA/AU

=> S (E3 OR E4)
 16 "KROON GIJSBERT"/AU
 1 "KROON GIJSBORT"/AU
 L3 17 ("KROON GIJSBERT"/AU OR "KROON GIJSBORT"/AU)

=> s l1 or l2 or l3
 L4 29 L1 OR L2 OR L3

=> s 14 and ?cellulose
 393053 ?CELLULOSE
 L5 20 L4 AND ?CELLULOSE

=> d 15 ibib abs 1-20

L5 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1009958 CAPLUS
 DOCUMENT NUMBER: 145:355536
 TITLE: Process of reducing fouling during heat processing of foods and beverages
 INVENTOR(S): Cash, Mary Jean; Erazo-Majewicz, Paquita;
 Good, Richard M.
 PATENT ASSIGNEE(S): Hercules Incorporated, USA
 SOURCE: PCT Int. Appl., 31pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006102051	A1	20060928	WO 2006-US9667	20060316
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 2006240159	A1	20061026	US 2006-377471	20060316

PRIORITY APPLN. INFO.: US 2005-662704P P 20050317

AB A pasteurization or sterilization process reduces fouling of a food or beverage composition containing protein during the heat treatment. An antifouling agent for addition to the food or beverage composition is selected from hydroxypropylcellulose (HPC) with a hydroxypropyl molar substitution >3.0 and a weight average mol. weight (Mw) as measured by SEC of >350,000 Dalton, methylhydroxypropylcellulose (MHPC) with a methoxyl content >17% and a hydroxypropyl content >3%, methylcellulose (MC) with a methoxyl content >17% and a viscosity in water at ambient temps. and a concentration of 2% of >1,000 cps, or mixts. thereof. This food or beverage composition is then heated in a first heat exchanger at 50-100° for about 2 s to 30 min for pasteurization or

it is further heated to sterilization temps. before being packaged out or further processed. The improvement of this process is that the heat exchangers are fouled $\geq 10\%$ by weight less (or the run-time is increased $\geq 10\%$) as compared to when heat-treating a similar food or beverage composition without the antifouling agent.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:945475 CAPLUS

DOCUMENT NUMBER: 145:316976

TITLE: Fabric softening compositions containing hydrophobically and cationically modified water-soluble polysaccharides

INVENTOR(S): Grainger, David Stephen; Griffiths, Llyr Glyndwr; Hubbard, John Francis; Kroon, Gijsbert

PATENT ASSIGNEE(S): Unilever PLC, UK; Unilever N.V.; Hindustan Lever Limited

SOURCE: PCT Int. Appl., 30pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006094582	A1	20060914	WO 2006-EP857	20060131
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: GB 2005-4536 A 20050304

AB An aqueous fabric softening composition having good high temperature stability comprises a cationic fabric softening compound and a water-soluble polysaccharide comprising hydrophobic groups selected from aryl, alkyl, alkenyl, aralkyl each having at least 14 carbon atoms and cationic quaternary ammonium salt groups such that the cationic degree of substitution is from 0.01 to 0.2, the polysaccharide having a mol. weight in the range from 100,000 to 700,000. Preferably, the hydrophobically modified water-soluble polysaccharide is quaternary ammonium salt-containing C16-C18-alkyl ether of 2-hydroxyethyl cellulose, and the cationic fabric softener is N,N-di(hydrogenated tallowoxyethyl)-N-hydroxyethyl-N-methylammonium Me sulfate.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:944453 CAPLUS

DOCUMENT NUMBER: 145:316973

TITLE: Fabric softening compositions containing hydrophobically modified water-soluble polysaccharides

INVENTOR(S): Grainger, David Stephen; Griffiths, Llyr Glyndwr; Hubbard, John Francis; Kroon, Gijsbert

PATENT ASSIGNEE(S): Unilever PLC, UK; Unilever NV; Hindustan Lever Limited

SOURCE: PCT Int. Appl., 31pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006094580	A1	20060914	WO 2006-EP773	20060125
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: GB 2005-4535 A 20050304
 AB An aqueous fabric softening composition having good high temperature stability comprises a cationic fabric softener and a water-soluble polysaccharide comprising hydrophobic groups selected from aryl, alkyl, alkenyl, aralkyl, each having at least 14 carbon atoms, the polysaccharide comprising 1.0-2.5% of the hydrophobic groups and having a mol. weight in the range from 100,000 to 700,000. Preferably, the hydrophobically modified water-soluble polysaccharide is C16-C18-alkyl ether of 2-hydroxyethyl cellulose, and the cationic fabric softener is N,N-di(hydrogenated tallowoxyethyl)-N-hydroxyethyl-N-methylammonium Me sulfate.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:467925 CAPLUS
 DOCUMENT NUMBER: 141:25240
 TITLE: Soluble, associative carboxymethyl cellulose, method for its manufacture and uses
 INVENTOR(S): Cash, Mary Jean; Cowan, Patrick J.
 ; Kroon, Gijsbert
 PATENT ASSIGNEE(S): Hercules Incorporated, USA
 SOURCE: PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004048418	A2	20040610	WO 2003-US38100	20031126
WO 2004048418	A3	20040826		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2503507	A1	20040610	CA 2003-2503507	20031126
AU 2003298762	A1	20040618	AU 2003-298762	20031126

US 2004158058	A1	20040812	US 2003-722888	20031126
EP 1565496	A2	20050824	EP 2003-796520	20031126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016623	A	20051011	BR 2003-16623	20031126
CN 1717419	A	20060104	CN 2003-80104199	20031126
JP 2006514935	T	20060518	JP 2004-555816	20031126
PRIORITY APPLN. INFO.: US 2002-429291P P 20021126 WO 2003-US38100 W 20031126				

AB A water-soluble, associative CM-cellulose (CMC) exhibits unique and highly desirable rheol. and performance properties in a wide variety end-use systems. The end-use systems include personal care, household care, paint, building material and construction, pharmaceutical, medical care, oilfield, mineral processing, paper making and paper coating, and food. A process for making the CMC comprises: (a) reacting in a slurry process, a source of cellulose, and .apprx.40-80% of the stoichiometric amount of NaOH for a sufficient time and at a sufficient temperature to form an alkali cellulose, and (b) adding to the alkali cellulose an amount of NaOH to bring the total amount of NaOH to about the stoichiometric level, and (c) immediately after step b, adding monochloroacetic acid to step b in a sufficient amount and reacting the slurry at a temperature and time sufficient to effect etherification in order to form the CMC product.

L5 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:676821 CAPLUS
 DOCUMENT NUMBER: 135:212487
 TITLE: Stabilized cationic microfibrillar cellulose
 INVENTOR(S): Cash, Mary Jean; Chan, Anita Ngai; Conner, Herbert Thompson; Cowan, Patrick Joseph; Gelman, Robert Alan; Lusvardi, Kate Marritt; Thompson, Samuel Anthony; Tise, Frank Peine
 PATENT ASSIGNEE(S): Hercules Incorporated, USA
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066600	A1	20010913	WO 2001-US3458	20010201
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2402181	A1	20010913	CA 2001-2402181	20010201
EP 1263792	A1	20021211	EP 2001-905373	20010201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.: US 2000-522032 A 20000309 WO 2001-US3458 W 20010201				

AB Microfibrillar cellulose is derivatized to contain a substituent that provides cationic charge. The cationic microfibrillar cellulose is prepared by derivatizing a microfibrillar cellulose to obtain a derivatized microfibrillar cellulose, microfibrillizing a derivatized non-microfibrillar cellulose to produce a derivatized microfibrillar cellulose, or

microfibrillizing and derivatizing a non-microfibrillar cellulose substantially simultaneously. The derivatized microfibrillar cellulose is useful as a rheol. modifier and in coatings, paper, emulsions, dispersions, paper compns., comestible compns., non-comestible spreadable compns., and foams.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:628184 CAPLUS
 DOCUMENT NUMBER: 133:224315
 TITLE: Hydrophobically modified cellulose-based associative thickeners for coatings having a high ICI viscosity
 INVENTOR(S): Hofman, Hans; Kroon, Gijsbert
 PATENT ASSIGNEE(S): Hercules Incorporated, USA
 SOURCE: PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000052059	A1	20000908	WO 2000-US5646	20000302
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1035134	A1	20000913	EP 1999-103926	19990305
EP 1035134	B1	20050608		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
ES 2241200	T3	20051016	ES 1999-103926	19990305
CA 2362287	A1	20000908	CA 2000-2362287	20000302
BR 2000008777	A	20011218	BR 2000-8777	20000302
JP 2003530441	T	20031014	JP 2000-602282	20000302
TW 546304	B	20030811	TW 2000-89111439	20000612
PRIORITY APPLN. INFO.:			EP 1999-103926	A 19990305
			WO 2000-US5646	W 20000302

AB Hydrophobically modified hydroxyethyl cellulose, methylhydroxyethyl cellulose or ethylhydroxyethyl cellulose have the mol. weight and the kind and amount of hydrophobe substitution selected such that the C10-20 alkyl-modified cellulose derivs. (alkyl substitution 0.3-6.0 weight%) give aqueous coatings a Leneta leveling ≥ 9 and improved ICI viscosity at low concentration. Thus, a semigloss paint comprising water 95.7, propylene glycol 21.5, aminopropanol 2, Calgon N 9, Byk 154 anionic dispersant 2, defoamer 5, C16-alkyl modified hydroxyethyl cellulose (hydroxyethyl MS 4.17, cellulose backbone mol. weight 21,000, 0.89 weight% C16) 0.87, TiO₂ 190, CaCO₃ 90, Surfynol 104E 6, Neocryl XK 90, Dehydran 1293 9, and diethylene glycol 60.7 parts with ammonia to pH 9 showed Stormer viscosity 100 KU, ICI viscosity 130, and Leneta leveling 10.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:573840 CAPLUS
 DOCUMENT NUMBER: 133:179157
 TITLE: Derivatized microfibrillar polysaccharides, their formation and use in dispersions

INVENTOR(S) : Cash, Mary Jean; Chan, Anita N.; Conner, Herbert Thompson; Cowan, Patrick Joseph; Gelman, Robert Alan; Lusvardi, Kate Marritt; Thompson, Samuel Anthony; Tise, Frank Peine

PATENT ASSIGNEE(S) : Hercules Incorporated, USA

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047628	A2	20000817	WO 2000-US3319	20000208
WO 2000047628	A3	20001207		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6602994	B1	20030805	US 1999-248246	19990210
CA 2327482	A1	20000817	CA 2000-2327482	20000208
BR 2000005116	A	20010102	BR 2000-5116	20000208
EP 1078008	A2	20010228	EP 2000-911740	20000208
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
HU 200102765	A2	20011228	HU 2001-2765	20000208
TR 200002813	T1	20020621	TR 2000-2813	20000208
JP 2002536507	T	20021029	JP 2000-598543	20000208
NZ 507250	A	20030829	NZ 2000-507250	20000208
NO 2000005085	A	20001207	NO 2000-5085	20001009
PRIORITY APPLN. INFO.:			US 1999-248246	A 19990210
			WO 2000-US3319	W 20000208

AB The invention is directed to the following. A method for producing derivatized microfibrillar polysaccharide, including but not limited to cellulose, derivatized by steric and/or electrostatic forces, where the electrostatic forces are provided by anionic charge or by a combination of both anionic and cationic charge, by stabilizing and/or microfibrillating a polysaccharide starting material. A method of modifying the rheol. properties of a composition of matter using derivatized microfibrillar polysaccharide. Method of improving coatings, paper manufacture, and the stability of emulsions, dispersions, and foams using a derivatized microfibrillar polysaccharide. Compns. that include derivatized microfibrillar polysaccharide, e.g., CM cellulose, including paper compns., comestible compns., non-comestible spreadable compns. (cosmetics), and emulsions, dispersion, and foams.

L5 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:290672 CAPLUS

DOCUMENT NUMBER: 132:309759

TITLE: Combinations of associative thickeners and aqueous protective coating compositions

INVENTOR(S) : Kroon, Gijsbert; Sau, Arjun C.

PATENT ASSIGNEE(S) : Hercules Incorporated, USA

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 997502	A1	20000503	EP 1998-120191	19981030
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2347839	A1	20000511	CA 1999-2347839	19991029
WO 2000026291	A1	20000511	WO 1999-US25624	19991029
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 9914951	A	20010710	BR 1999-14951	19991029
HU 200104104	A2	20020328	HU 2001-4104	19991029
JP 2003521562	T	20030715	JP 2000-579673	19991029
NO 2001002055	A	20010426	NO 2001-2055	20010426
PRIORITY APPLN. INFO.:			EP 1998-120191	A 19981030
			WO 1999-US25624	W 19991029

AB Thickener compns. comprise a combination of associative thickeners, wherein at least one associative thickener is a hydrophobically modified cellulose derivative or a hydrophobically modified guar derivative and is present in the combination of associative thickeners in a relative amount of at least 70% by weight or in a relative amount of not more than 30% by weight, based on the weight of the combination of associative thickeners. A thickener composition contained hydrophobically modified hydroxyethyl cellulose and hydrophobically modified polyethylene glycol.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:116797 CAPLUS

DOCUMENT NUMBER: 132:138864

TITLE: Preparation and application of industrial protective aqueous coating compositions containing an associative thickener

INVENTOR(S): Kroon, Gijsbert

PATENT ASSIGNEE(S): Hercules Incorporated, USA

SOURCE: Eur. Pat. Appl., 37 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 979850	A1	20000216	EP 1998-115111	19980811
EP 979850	B1	20040519		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AT 267231	T	20040615	AT 1998-115111	19980811
ES 2217467	T3	20041101	ES 1998-115111	19980811
CA 2338621	A1	20000224	CA 1999-2338621	19990811
WO 2000009564	A1	20000224	WO 1999-US18385	19990811
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

AU 9954819	A1	20000306	AU 1999-54819	19990811
AU 761716	B2	20030605		
BR 9912961	A	20010508	BR 1999-12961	19990811
TR 200100115	T2	20010621	TR 2001-200100115	19990811
HU 200103131	A2	20011128	HU 2001-3131	19990811
JP 2003522212	T	20030722	JP 2000-565010	19990811
NO 2001000692	A	20010209	NO 2001-692	20010209
PRIORITY APPLN. INFO.:			EP 1998-115111	A 19980811
			WO 1999-US18385	W 19990811

AB The associative thickener is not a polyurethane thickener and is selected so that its concentration required by the specific application method is below the critical concentration, defined as the thickener concentration at which the coils of the thickener polymer start to overlap or entangle calculated according to the Mark-Houwink equation. Cetyl-modified hydroxyethyl cellulose thickener with viscosity average mol. weight 60,000 and at concentration 1.07% in a styrene-acrylic anticorrosion primer was sprayed onto a substrate to give a smooth film having good slat spray resistance and no blistering.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:98676 CAPLUS

DOCUMENT NUMBER: 132:138852

TITLE: Waterborne coatings and paints comprising cationically modified associative cellulose ethers having one hydrophobic group and one quaternary ammonium salt group

INVENTOR(S): Kroon, Gijsbert

PATENT ASSIGNEE(S): Hercules Incorporated, USA

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006656	A1	20000210	WO 1999-US11728	19990525
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6121439	A	20000919	US 1998-128632	19980727
CA 2338380	A1	20000210	CA 1999-2338380	19990525
AU 9942112	A1	20000221	AU 1999-42112	19990525
AU 747950	B2	20020530		
BR 9912477	A	20010417	BR 1999-12477	19990525
EP 1100851	A1	20010523	EP 1999-925924	19990525
EP 1100851	B1	20040728		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TR 200100197	T2	20010621	TR 2001-200100197	19990525
HU 200102667	A2	20011128	HU 2001-2667	19990525
JP 2002521550	T	20020716	JP 2000-562442	19990525
AT 272097	T	20040815	AT 1999-925924	19990525
ES 2224670	T3	20050301	ES 1999-925924	19990525
TW 593608	B	20040621	TW 1999-88112610	19990928
NO 2001000460	A	20010307	NO 2001-460	20010126
PRIORITY APPLN. INFO.:			US 1998-128632	A 19980727

WO 1999-US11728 W 19990525

AB A coating composition comprises a water soluble polysaccharide composition comprising at least one hydrophobic group selected from aryl, alkyl, alkenyl, aralkyl and mixts. thereof and at least one quaternary ammonium salt group, both connected to a polysaccharide backbone by covalent bonds. The coating composition also comprises a synthetic thickener such as hydrophobically modified polyethylene oxide, associative acrylic polymer, and hydrophobically modified ethoxylated urethane. The water-soluble polysaccharides are prepared by (1) preparing slurry of the associative thickener such as hydroxyethyl cellulose in presence of water and caustic, (2) reacting with glycidyl trimethylammonium chloride at 45° for about 4 h under a nitrogen blanket, and (3) cooling, neutralizing, precipitating, filtering, and drying. This coating is used for improving the leveling of waterborne paints.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:653744 CAPLUS

DOCUMENT NUMBER: 129:261808

TITLE: Use of aqueous protective coating compositions for industrial coatings and aqueous coating compositions containing an associative thickener

INVENTOR(S): Kroon, Gijsbert

PATENT ASSIGNEE(S): HERCULES INCORPORATED, USA

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 867481	A1	19980930	EP 1997-105214	19970327
EP 867481	B1	20030507		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
ES 2193291	T3	20031101	ES 1997-105214	19970327
CA 2233145	A1	19980927	CA 1998-2233145	19980326
ZA 9802617	A	19980928	ZA 1998-2617	19980327
AU 9859700	A	19981001	AU 1998-59700	19980327
AU 738968	B2	20011004		
CN 1195008	A	19981007	CN 1998-100971	19980327
JP 11029721	A	19990202	JP 1998-81204	19980327
US 5922119	A	19990713	US 1998-49536	19980327
BR 9801137	A	19991005	BR 1998-1137	19980327

PRIORITY APPLN. INFO.: EP 1997-105214 A 19970327

AB The associative thickener is not a polyurethane thickener and is selected so that its concentration required by the specific application method is below the critical concentration, defined as the thickener concentration at which the coils of the thickener polymer start to overlap or entangle calculated according to the Mark-Houwink equation. Cetyl-modified hydroxyethyl cellulose thickener with viscosity average mol. weight 60,000 and at concentration 1.07% in a styrene-acrylic anticorrosion primer was sprayed onto a substrate to give a smooth film having good slat spray resistance and no blistering.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:564209 CAPLUS

DOCUMENT NUMBER: 129:176977

TITLE: Cellulose ethers in emulsion polymerization dispersions

INVENTOR(S): Janssen, Bernardus J. W.; Kroon, Gijsbert;
 Kruythoff, Dirk; Salomons, Willemina G.
 PATENT ASSIGNEE(S): Hercules Inc., USA
 SOURCE: U.S., 14 pp., Cont.-in-part of U. S. Ser. No. 542,269,
 abandoned.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5795928	A	19980818	US 1995-553007	19951103
CA 2204242	A1	19960517	CA 1995-2204242	19951103
HU 77335	A2	19980330	HU 1997-2282	19951103
HU 218013	B	20000528		
ES 2214509	T3	20040916	ES 1995-938712	19951103
EG 21224	A	20010228	EG 1996-136	19960218
TW 473480	B	20020121	TW 1996-85103283	19960319
PRIORITY APPLN. INFO.:				
US 1994-333697 B1 19941103				
US 1995-542269 B2 19951020				
US 1995-553007 A 19951103				

AB In a process for preparing a latex system that has a tendency to flocculate because of grafting, the improvement comprises aqueous emulsion polymerizing of ≥ 1 unsatd. monomer (e.g., acrylic acid, methacrylic acid, Bu acrylate, Me methacrylate, acrylic esters, styrene, vinyl ethers, vinyl, vinylidene halides, N-vinyl pyrrolidone, ethylene, C3 or greater alpha-olefins, allyl amines, allyl esters of saturated monocarboxylic acids and amides thereof, propylene, 1-butene, 1-pentene, 1-hexene, 1-decene, allyl amines, allyl acetate, allyl propionate, allyl lactate and derivs.) in the presence of a water-soluble protective colloid. The protective colloid has a weight-average mol. weight $<75,000$, and is selected from CM-cellulose and derivs. having a carboxyl degree of substitution lower limit of about 0.7, hydroxyethylcellulose, Et hydroxyethylcellulose, methylcellulose, Me hydroxypropylcellulose, hydroxypropylcellulose, poly(acrylic acid) and alkali metal salts thereof, ethoxylated starch derivs., sodium and other alkali metal polyacrylates, water soluble starch glue, gelatin, water soluble alginates, casein, agar, natural and synthetic gums, partially and fully hydrolyzed poly(vinyl alc.), polyacrylamide, poly(vinyl pyrrolidone), poly(Me vinyl ether-maleic anhydride), gelatin, and casein. The latex has improved mech. and shear stability. This latex provides coating manufacturers the flexibility of either eliminating surfactants altogether from coating or to use small amt. thereof.

REFERENCE COUNT: 81 THERE ARE 81 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1996:443976 CAPLUS
 DOCUMENT NUMBER: 125:88102
 TITLE: Emulsion polymerization of ethylenically unsaturated monomers in the presence of protective colloids, especially cellulose ethers, giving latexes with improved mechanical stability
 INVENTOR(S): Janssen, Bernardus J. W.; Kroon, Gijsbert;
 Kruythoff, Dirk; Salomons, Willemina G.
 PATENT ASSIGNEE(S): Hercules Inc., USA
 SOURCE: PCT Int. Appl., 47 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9614357	A1	19960517	WO 1995-US12757	19951103
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2204242	A1	19960517	CA 1995-2204242	19951103
AU 9539985	A	19960531	AU 1995-39985	19951103
AU 705681	B2	19990527		
EP 789725	A1	19970820	EP 1995-938712	19951103
EP 789725	B1	20040324		
R: AT, BE, CH, DE, ES, FR, GB, LI, NL, PT, SE				
BR 9509581	A	19971223	BR 1995-9581	19951103
HU 77335	A2	19980330	HU 1997-2282	19951103
HU 218013	B	20000528		
JP 10508632	T	19980825	JP 1995-515301	19951103
RU 2156775	C2	20000927	RU 1997-109350	19951103
AT 262557	T	20040415	AT 1995-938712	19951103
ES 2214509	T3	20040916	ES 1995-938712	19951103
JP 3667341	B2	20050706	JP 1996-515301	19951103
EG 21224	A	20010228	EG 1996-136	19960218
NO 9702015	A	19970623	NO 1997-2015	19970430
PRIORITY APPLN. INFO.:			US 1994-333697	A 19941103
			US 1995-542269	A 19951020
			US 1995-533007	A 19951103
			WO 1995-US12757	W 19951103

AB Polymer latexes having improved mech. and shear stability are prepared by emulsion polymerization of at least one ethylenically unsatd. monomer having up to 23 carbons in the presence of a surfactant, a protective colloid with a mol. weight of less than 75,000 (in an amount of .apprx.0.05-5.0% based on the monomer content), and at least one water-soluble free-radical polymerization initiator (in an amount of .apprx.0.01-1.5% based on the monomer content.). The protective colloids are selected from the group consisting of cellulose ethers (CMC, hydroxyethyl cellulose, Et hydroxyethyl cellulose, Me cellulose, Me hydroxypropyl cellulose, hydroxypropyl cellulose) or their derivs., poly(acrylic acid) and their alkali metal salts, ethoxylated starch derivs., water-soluble starch, gelatin, alginates, casein, agar, natural and synthetic gums, partially or fully hydrolyzed poly(vinyl alc.), polyacrylamide, poly(vinyl pyrrolidone), or maleic anhydride-Me vinyl ether copolymer. This latex provides coating manufacturers the flexibility of either eliminating surfactants altogether from coating or to use small amts. thereof. Thus, 16.6 g CM-cellulose (mol. weight 7,000-11,000, substitution degree .apprx. 1.2) together with 1.6 g NaHCO₃ were dissolved in 461 g demineralized water, the temperature was raised to 85°, 1.5 g K₂S₂O₈ initiator in 50 g water was added, followed by addition of the monomer mixture containing 248.6 g Bu acrylate, 248.6 g Me methacrylate, and 2.8 g methacrylic acid. After several hours a fine dispersion of the polymeric latex was obtained. Due to the small size of the obtained latex particles, they may be employed in latex paint compns. with high pigment content without the need to add surfactants to the paint.

L5 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:388148 CAPLUS

DOCUMENT NUMBER: 125:35939

TITLE: Waterborne clay-containing emulsion paints with improved application performance

INVENTOR(S): Kroon, Gijsbert

PATENT ASSIGNEE(S) : Aqualon Company, USA
 SOURCE: Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 707052	A2	19960417	EP 1995-116040	19951011
EP 707052	A3	19980805		
EP 707052	B1	20010816		
R: BE, CH, DE, FR, GB, IT, LI, NL, PT, SE				
US 5574081	A	19961112	US 1994-324189	19941011
CA 2160191	A1	19960412	CA 1995-2160191	19951010
AU 9533162	A	19960426	AU 1995-33162	19951010
AU 701931	B2	19990211		
JP 08199110	A	19960806	JP 1995-263167	19951011
CN 1132228	A	19961002	CN 1995-119930	19951011
CN 1086723	B	20020626		
PT 707052	T	20020228	PT 1995-116040	19951011
			US 1994-324189	A 19941011

PRIORITY APPLN. INFO.:

AB The title paint compns. comprise a clay-containing pigment system, a latex binder, a polysaccharide (e.g., hydroxyethyl cellulose) thickener, and 0.005-2%, based upon the weight of the pigment, of a blocking agent [e.g., poly(ethylene glycol)] which serves to prevent more than 20% of the polysaccharide thickener from being adsorbed onto the clay pigment surface, whereby the paint composition exhibits improved appearance and application performance.

L5 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:879560 CAPLUS
 DOCUMENT NUMBER: 124:10964
 TITLE: Formulating waterborne gloss emulsion paints with cellulose ether-based associative thickeners
 AUTHOR(S): Kroon, Gijsbert
 CORPORATE SOURCE: Aqualon Division, Zwijndrecht, 3336 LH, Neth.
 SOURCE: Coatings, Community and Care, International Conference, 14th Copenhagen, Nov. 14-16, 1994 (1994), 1-12. Paint Research Association: Teddington, UK.
 CODEN: 61VZAP

DOCUMENT TYPE: Conference
 LANGUAGE: English

AB Low-mol. weight hydrophobically modified hydroxyethyl cellulose is an associative thickener providing gloss and semi-gloss emulsion paints with a good balance of paint properties.

L5 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:607684 CAPLUS
 DOCUMENT NUMBER: 121:207684
 TITLE: Associative behavior of hydrophobically modified hydroxyethyl celluloses (HMHECs) in waterborne coatings
 AUTHOR(S): Kroon, Gijsbert
 CORPORATE SOURCE: Aqualon BV, Zijndrecht, 3336 LH, Neth.
 SOURCE: Progress in Organic Coatings (1993), 22(1-4), 245-60
 CODEN: POGCAT; ISSN: 0033-0655

DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The associative behavior of hydrophobically modified hydroxyethyl cellulose (HMHEC) in polymer dispersions has been determined as a function of the composition of both the associative thickener (AT) and the latex. The impact of latex composition and HMMEC composition on the adsorption

characteristics and rheol. properties of the latex-thickener system were demonstrated. Adsorption of HMHECs onto an acrylic emulsion strongly depends on the hydrophobe type and degree of substitution, as well as on the mol. weight of the associative thickener. The degree of latex adsorption is influenced dramatically by the stabilization system utilized, that is choice and level of surfactant and carboxylic acid content, in addition to the composition of the monomer mix. Rheol. measurements demonstrate that HMHECs of specific composition can provide gloss emulsion paints with a balance of rheol. properties, combining excellent leveling with sag resistance.

L5 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:137216 CAPLUS

DOCUMENT NUMBER: 120:137216

TITLE: Improved leveling of aqueous coating compositions by addition of associative thickeners of modified natural and synthetic polymers

INVENTOR(S): Kroon, Gijsbert; Sau, Arjun Chandra

PATENT ASSIGNEE(S): Aqualon Co., USA

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 566911	A1	19931027	EP 1993-105486	19930402
EP 566911	B1	19980826		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 172027	T	19980915	AT 1993-105486	19930402
ES 2119828	T3	19981016	ES 1993-105486	19930402
CA 2093493	A1	19931021	CA 1993-2093493	19930406
CA 2093493	C	20041019		
JP 06025569	A	19940201	JP 1993-93279	19930420
JP 3696258	B2	20050914		

PRIORITY APPLN. INFO.: US 1992-871320 A 19920420

AB Polysaccharide (hydroxyethylcellulose) and synthetic polymers [poly(vinyl alc.)] are modified with alkyl or aralkyl hydrophobic groups; these polymers having mol. weight 10,000-300,000 and 10,000-50,000 (preferred), resp., improve leveling without affecting sag or thickening efficiency. High mol. weight hydrophobically-modified polysaccharide can be degraded with H2O2 to reduce the mol. weight to a useful range.

L5 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:79487 CAPLUS

DOCUMENT NUMBER: 120:79487

TITLE: Associative behavior of hydrophobically modified hydroxyethyl celluloses (HMHECs) in waterborne coatings

AUTHOR(S): Kroon, Gijsbert

CORPORATE SOURCE: Aqualon BV, Zwijndrecht, 3336 LH, Neth.

SOURCE: Proc. - Int. Conf. Org. Coat. Sci. Technol., 18th (1992), 283-95. Int. Conf. Org. Coag. Sci. Technol.: New Paltz, N. Y.

CODEN: 59BGAF

DOCUMENT TYPE: Conference

LANGUAGE: English

AB The associative behavior of hydrophobically modified hydroxyethyl cellulose in polymer dispersions was determined as a function of the composition of both the associative thickener (AT) and the latex. How changes in interaction between HMHEC and the latex influence the rheol. of the latex-thickener systems is discussed. Adsorption of HMHECs onto an acrylic emulsion strongly depends on the hydrophobe type and degree of

substitution, as well as on the mol. weight of the associative thickener. The degree of latex adsorption is influenced dramatically by the stabilization system utilized, i.e., choice and level of surfactant and carboxylic acid content, in addition to the composition of the monomer mix. Rheol. measurements demonstrated that HMHECs of specific composition can provide gloss emulsion paints with a balance of rheol. properties, combining excellent leveling with sag resistance.

L5 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:592563 CAPLUS
 DOCUMENT NUMBER: 117:192563
 TITLE: Particle size control in vinyl polymerization.
 INVENTOR(S): Kroon, Gijsbert
 PATENT ASSIGNEE(S): Aqualon Co., USA
 SOURCE: Eur. Pat. Appl., 8 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 489425	A1	19920610	EP 1991-120846	19911204
EP 489425	B1	19960904		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
CA 2053631	A1	19920607	CA 1991-2053631	19911017
AT 142231	T	19960915	AT 1991-120846	19911204
AU 9188881	A	19920611	AU 1991-88881	19911205
AU 653559	B2	19941006		
JP 04275305	A	19920930	JP 1991-323212	19911206
JP 3326191	B2	20020917		

PRIORITY APPLN. INFO.: US 1990-622959 A 19901206

AB Particle size distribution (PSD) of polymers prepared from styrene, Me methacrylate, vinyl chloride, diethylaminoethyl methacrylate and Bu methacrylate has a homogeneity of $\geq 60\%$ and weight% latex is ≤ 0.1 weight% [based on weight% monomer(s)] when prepared in presence of a thickener from specified cellulose ethers and $\text{Ca}_3(\text{PO}_4)_2$. Thus, an emulsion polystyrene was prepared in presence of 0.4-0.6 weight% hexadecyl hydroxymethyl cellulose (molar substitution 1.5-4.1) and 0.25 weight% $\text{Ca}_3(\text{PO}_4)_2$ to give homogeneity of PSD 75%.

L5 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:146819 CAPLUS
 DOCUMENT NUMBER: 114:146819
 TITLE: Hydrophobically-modified cellulose ethers for stable aqueous coal slurries
 INVENTOR(S): Kroon, Gijsbort
 PATENT ASSIGNEE(S): Aqualon Co., USA
 SOURCE: Ger. Offen., 4 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3927567	A1	19910228	DE 1989-3927567	19890821
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PRIORITY APPLN. INFO.: DE 1989-3927567 19890821

AB Hydrophobically-modified cellulose ethers, which are substituted with hydrophobic groups having $\text{C} > 6$ alkyl, alkoxy carbonyl, alkyliminocarbonyl, 3-alkoxy-2-hydroxypropyl and 2-alkyl-2-hydroxyalkyl

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groups, are used as stabilizers for slurrying coal in water. Suitable cellulose ethers are cetyl and 3-n-butoxy-2-hydroxypropyl group-substituted hydroxyethylcellulose.

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(FILE 'HOME' ENTERED AT 22:01:04 ON 03 JAN 2007)

FILE 'CAPLUS' ENTERED AT 22:01:35 ON 03 JAN 2007

E CASH MARY/AU 25

L1 5 S (E3 OR E4)

E COWAN PATRI*/AU 25

L2 11 S (E5 OR E6)

E KROON GIJSBERT/AU 25

L3 17 S (E3 OR E4)

L4 29 S L1 OR L2 OR L3

L5 20 S L4 AND ?CELLULOSE

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

72.08

72.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

TOTAL

CA SUBSCRIBER PRICE

-15.60

-15.60

STN INTERNATIONAL LOGOFF AT 22:03:38 ON 03 JAN 2007